



# Hammerhead™ USV-T

## Naval Target

The Hammerhead Unmanned Surface Vehicle-Target (USV-T) is a 5m, advanced composite surface-effect hull speedboat, powered by a 135 hp gas 3.0L Merc engine. The Hammerhead USV-T operates at speeds of 35 knots in Sea State (SS) 3 and speeds of >35 knots in SS2 and below. This is a significant performance increase over any other target system in this category.

The Hammerhead USV-T was specifically designed to simulate a Fast Inshore Attack Craft (FIAC) in a multi-vehicle swarm of up to 40 vehicles. It also excels in replicating Fast Attack Craft (FAC) naval threats.

The Hammerhead USV-T replicates high-speed naval tactics and a variety of operational guidance plans, including straight-on high-speed attacks, crossing patterns, zig-zag patterns, and other evasive manoeuvres. The system can be equipped with visual, radar, and laser signature enhancements to present a convincing likeness of a variety of naval threats.

Hammerhead is typically used by customers to represent 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

## Specifications

Physical		Key features	
Hull length	5.2m (17ft)	Proven speed of 35 knots in Sea State 3	
Boat beam	1.4m (4.7 feet)	Line-of-Sight or Over-the-Horizon control	
Target weight (dry)	900kg (1984lbs)	High speed manoeuvring sea surface target	
Engine	MerCruiser 3.0L	Designed to replicate a FIAC threat in swarms of up to 40 vehicles	
Engine performance	135 horsepower	Cost-effective 'Kill' target	
Fuel capacity	161 litres (43 US gallons)		
Outdrive	MerCruiser Alpha1		
Performance			
Temperature	Operating: -10° to +40°C (14° to +104°F) Storage: -40°C to +60°C (-40 to +140°F)		
Maximum speed	35 knots in Sea State 3		
Speed/endurance	12 hours @ 2400 RPM 10 knots 8 hours @ 3050 RPM 20 knots 5 hours @ 4100 RPM 30 knots		
TM range	5 nm (subject to UTCS antenna height)		
Control system	UTCS (STANAG 4856 compliant)		
Optional payloads			
	Passive radar augmentation (20-500m <sup>2</sup> , I-Band) Video TM Visual augmentation: smokes, flag, flares, strobes Doppler Radar MDI Active Radar Augmentation (RF-SAS System)		

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

## Collaborating with QinetiQ

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